Amendments to the Claims

Please amend Claims 1, 13, 20, 27, 46, 58, 65, 77, 82, 85, 100, 106, and 113-118. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1. (Currently Amended) A computerized system for retrieving electronic content collected from an electronic address over time, the electronic content associated with an internetworked content provider, comprising:

a data warehouse storing a plurality of data files, including an archived original content file having original content stored therein as collected from an electronic address at a specified time and an archived registration file having Internet domain name registration information stored therein that is related to a content provider associated with the electronic address at the specified time;

a searchable electronic index of original content stored in the archived original content file;

a query engine in communication with the electronic index;

a user interface in communication with the query engine for soliciting a query from a user for desired content, the desired content having a match to original content stored in the archived original content file; and

a query result presented to the user in response to the query and the electronic index, the query result including a reference to the archived original content file and the archived registration file ~~Internet domain registration information~~.

2. (Previously Presented) The system of Claim 1 wherein the query solicits desired content of at least one of a text string or a multimedia target.

3. (Original) The system of Claim 1 wherein the data warehouse is located remote from the user interface.

4. (Original) The system of Claim 1 wherein the query result is not presented in real time.

5. (Previously Presented) The system of Claim 1 wherein the user interface includes a search engine result identifying a Universal Resource Locator.

6. (Original) The system of Claim 5 wherein the Universal Resource Locator is responsive to the solicitation for a query.

7. (Previously Presented) The system of Claim 1 wherein the query result includes a history of changes to the data files collected from the electronic address over time.

8. (Previously Presented) The system of Claim 1 wherein the query result includes a history of changes to the Internet domain name information over time.

9. (Cancelled)

10. (Cancelled)

11. (Original) The system of Claim 1 wherein the query results are responsive to a query specifying a trademark.

12. (Original) The system of Claim 1 wherein the query results are responsive to a query specifying a work of authorship.

13. (Currently Amended) A system for storing information for retrieval, comprising:

a database storing data in an organized structure, the data associated with a plurality of data files, including an archived original content file having content stored therein as collected from an electronic address over time, the electronic content associated with a content provider;

a plurality of modules populating the database with data associated with the data files;

a searchable electronic index of the content stored within the archived original content file stored in the database; and

a query engine in communication with the electronic index for retrieving the stored data based on a query parameter and the electronic index.

14. (Previously Presented) The system of Claim 13 further comprising an archive storing the data files in perpetuity.

15. (Previously Presented) The system of Claim 14 wherein the database includes references to the data files for retrieval from the archive.

16. (Previously Presented) The system of Claim 13 wherein the content provider includes a content provider selected from at least one of a domain name service registry and a web server.

17. (Previously Presented) The system of Claim 13 wherein the modules communicate with the electronic address over a public access computer network.

18. (Previously Presented) The system of Claim 13 further comprising an indexer, the indexer creating the searchable electronic index.

19. (Previously Presented) The system of Claim 13 wherein the searchable electronic index includes multimedia data.

20. (Currently Amended) A computerized system for storage and retrieval of content from a plurality of Internet content providers, the content including registration content and page content, the system comprising:

a data warehouse structured to store content for later retrieval; and

a registration retrieval mechanism in communication with a plurality of Internet domain name registries for retrieving registration content for a plurality of content providers and storing the retrieved registration content in a plurality of registration files in the data warehouse over time;

a mechanism for associating the stored registration content with a respective time stamp, the time stamp indicating the time that the stored registration content was retrieved by the registration retrieval mechanism; and

a searchable electronic index of the ~~stored~~ registration content stored in the registration files.

21. (Original) The system of Claim 20 further comprising a page retrieval mechanism in communication with a content provider for retrieving page content from the content providers and storing the retrieved content in the data warehouse.

22. (Previously Presented) The system of Claim 20 wherein the data warehouse includes a database structure for managing the stored registration content.

23. (Cancelled)

24. (Previously Presented) The system of Claim 20 wherein the indexer is a multimedia indexer.

25. (Previously Presented) The system of Claim 20 further comprising a query engine coupled to the indexer for retrieving the stored registration content.

26. (Original) The system of Claim 25 wherein the query engine includes a program interface operable by a remote computer.

27. (Currently Amended) A computerized system for archiving information from a plurality of internetworked web content providers, comprising:

an identifier of a web content provider stored in a data warehouse;

for the web content provider, information stored in the data warehouse including:

~~a record of~~ ownership registration data stored in a registration file;

~~a source code file having~~ instructions for operating web browsers stored in a source code file;

~~a file having~~ an image of a browser-rendered display generated by a web browser as instructed by the instructions in the source code file, the rendered image file generated contemporaneously with the storage of the source code file and stored in a rendered image file; and

a database associating the web content provider with the stored information.

28. (Original) The system of Claim 27 wherein the identifier is a unique address of the web content provider.

29. (Original) The system of Claim 28 wherein the unique address is a domain name derived from a domain name registry.

30. (Original) The system of Claim 27 wherein the stored information is compressed.

31. (Original) The system of Claim 27 wherein the stored information includes a copy of a multimedia file.

32. (Original) The system of Claim 27 further comprising an indexer operating on the stored information.

33. (Original) The system of Claim 32 wherein the indexer includes a digital signature engine operating on multimedia files.

34. (Original) The system of Claim 27 further comprising a user interface for querying the data warehouse.

35. (Original) The system of Claim 34 wherein the user interface is operable by a remote computer.

36. (Original) The system of Claim 35 wherein the remote computer includes a search engine interface.

37. (Original) The system of Claim 27 further comprising web robots to retrieve information from a remote content provider.

38. (Previously Presented) The system of Claim 37 wherein the remote content provider is a registry storing the ownership registration data.

39. (Previously Presented) The system of Claim 37 wherein the remote content provider is the web content provider storing the instructions.

40. (Previously Presented) The system of Claim 27 further comprising a processing module to monitor changes to the instructions at the web content provider, based on the stored source code file.

41. (Original) The system of Claim 40 wherein the data warehouse stores a prior version and a current version of a changed source code file.

42. (Previously Presented) The system of Claim 27 further comprising a processing module to monitor changes to ownership registration data at a registration content provider based on the stored record of ownership registration data.

43. (Previously Presented) The system of Claim 42 wherein the data warehouse stores a prior version and a current version of a changed record of ownership registration data.

44. (Original) The system of Claim 27 wherein the data warehouse includes an offline storage medium.

45. (Original) The system of Claim 27 wherein the web content provider supports a protocol to facilitate the archival of information.

46. (Currently Amended) A computerized system for archiving data from a plurality of distinct content providers~~, each content provider having ownership information, the ownership information being changeable over time~~, the system comprising:

an identification for each content provider of a plurality of content providers, each content provider having ownership information, the ownership information being changeable over time; and

a mechanism that stores, for each identified content provider, a file for each version of the ownership information in association with a time stamp in a data archive for later retrieval.

47. (Original) The system of Claim 46 wherein the content providers are registered in a shared registry system.

48. (Previously Presented) The system of Claim 47 wherein the stored ownership information includes registration data associated with the registry.

49. (Original) The system of Claim 47 wherein the content provider is identified by a unique address.

50. (Previously Presented) The system of Claim 46 wherein the mechanism includes a data compression algorithm to reduce the size of the ownership information before storing in the data archive.

51. (Previously Presented) The system of Claim 46 further comprising a database structure associating each content provider with its stored ownership information.

52. (Previously Presented) The system of Claim 51 wherein the database structure tracks changes to the stored ownership information over time.

53. (Previously Presented) The system of Claim 46 wherein the stored ownership information is maintainable in perpetuity.

54. (Previously Presented) The system of Claim 46 further comprising an indexer for maintaining a searchable index of the stored ownership information.

55. (Previously Presented) The system of Claim 54 wherein the stored ownership information is multimedia content.

56. (Previously Presented) The system of Claim 54 further comprising a query engine coupled to the indexer for processing queries against the stored ownership information.

57. (Original) The system of Claim 56 wherein the query engine includes a program interface operable by a remote computer.

58. (Currently Amended) A computerized system for monitoring intellectual property rights across a plurality of internetworked content providers, comprising:

an identifier of a plurality of web content providers;

for each of a plurality of web content provider, searchable information stored in the data archive including:

~~a record of~~ Internet domain name registration data associated with the content provider stored in a registration file;

~~a source code file having~~ instructions for operating web browsers as specified by the web content provider stored in a source code file;

~~a file having~~ an image of a browser-rendered display generated by a web browser as instructed by the instructions in the source code file, the browser-rendered image being generated contemporaneously with the storage of the source code file and stored in a rendered image file;

a database associating web content providers with the stored information and associating the stored information with a time stamp;

a querying interface to the data archive to solicit information related to the searchable information and a specified time; and

a report responsive to the solicited information, the report including archived information associated at least one content provider.

59. (Original) The user interface of Claim 58 wherein the solicited information is at least one of a trademark, a work of authorship, or an invention.

60. (Original) The user interface of Claim 58 wherein the solicited information is entered as a file location.

61. (Original) The user interface of Claim 60 wherein the file is at least one of a text file, an audio file, an image file, or a video file.

62. (Original) The user interface of Claim 58 wherein the report includes archived information associated with a plurality of network registrars.

63. (Original) The user interface of Claim 58 wherein the report includes archived information from a plurality of web content providers.

64. (Original) The user interface of Claim 58 wherein the archived information includes obsolete information.

65. (Currently Amended) A computerized method for retrieving electronic content collected from an electronic address over time, the electronic content associated with an internetworked content provider, comprising:

in a data warehouse, storing a plurality of data files, including an archived original content file having original content stored therein as collected from an electronic address at a specified time and an archived registration file having Internet domain name registration information stored therein that is related to a content provider associated with the electronic address at the specified time;

storing a searchable electronic index of original content stored in the archived original content file;

providing a query engine in communication with the electronic index;

soliciting a query from a user for desired content through a user interface in communication with the query engine, the desired content having a match to original content stored in the archived original content file;

presenting a query result to the user in response to the query and the electronic index, the query result including a reference to the archived original content file and the archived registration file ~~Internet domain registration information~~.

66. (Previously Presented) The method of Claim 65 wherein soliciting comprises a query including desired content of at least one of a text string or a multimedia target.

67. (Original) The method of Claim 65 wherein the data warehouse is located remote from the user interface.

68. (Original) The method of Claim 65 wherein presenting the query result is not performed in real time with the query.

69. (Previously Presented) The method of Claim 65 wherein soliciting comprises identifying a Universal Resource Locator through a search engine result.

70. (Original) The method of Claim 69 wherein the Universal Resource Locator is responsive to the solicitation for a query.

71. (Previously Presented) The method of Claim 65 wherein the query result includes a history of changes to the data files collected from the electronic address over time.

72. (Previously Presented) The method of Claim 65 wherein the query result includes a history of changes to the Internet domain name information over time.

73. (Cancelled)

74. (Cancelled)

75. (Original) The method of Claim 65 wherein the query results are responsive to a query specifying a trademark.

76. (Original) The method of Claim 65 wherein the query results are responsive to a query specifying a work of authorship.

77. (Currently Amended) A method for storing information for retrieval, comprising:

storing data in an organized structure in a database, the data associated with a plurality of data files, including an archived original content file having content stored therein as collected from an electronic address over time, the electronic content associated with a content provider;

from a plurality of modules, populating the database with the data files;

creating a searchable electronic index of the content stored within the archived original content file stored in the database;

accepting a query parameter into a query engine in communication with the electronic index; and

retrieving the stored data based on the query parameter and the electronic index.

78. (Previously Presented) The method of Claim 77 further comprising storing the data files in perpetuity.

79. (Previously Presented) The method of Claim 77 wherein the content provider includes a content provider selected from at least one of a domain name service registry and a web server.

80. (Previously Presented) The method of Claim 77 wherein the modules communicate with the electronic address over a public access computer network.

81. (Previously Presented) The method of Claim 77 further comprising an indexer, the indexer creating the searchable electronic index.

82. (Currently Amended) A computerized method for storage and retrieval of content from a plurality of Internet content providers, the content including registration content and page content, the method comprising:

storing content for later retrieval in a data warehouse; and

retrieving registration content for a plurality of web content providers from a plurality of Internet domain name registries and storing the retrieved registration content in a plurality of registration files in the data warehouse over time;

associating the stored registration content with a respective time stamp, the time stamp indicating the time that the stored registration content was retrieved from the respective Internet domain name registry; and

creating a searchable electronic index of the ~~stored~~ registration content stored in the registration files.

83. (Original) The method of Claim 82 further comprising retrieving page content from the web content providers and storing the retrieved page content in the data warehouse.

84. (Previously Presented) The method of Claim 82 further comprising accessing the searchable electronic index using a query engine.

85. (Currently Amended) A computerized method for archiving information from a plurality of internetworked web content providers, comprising:

connecting a machine to a data warehouse having data storage that is accessible by the machine;

machine storing an identifier of a web content provider in a data warehouse;

for the web content provider, machine storing information in the data warehouse, the stored information including:

~~a record of~~ ownership registration data stored in a registration file;

~~a source code file having~~ instructions for operating web browsers stored in a source code file;

~~a file having~~ an image of a browser-rendered display generated by a web browser as instructed by the instructions in the source code file, the rendered image file generated contemporaneously with the storage of the source code file and stored in a rendered image file; and

machine associating the web content provider with the stored information in a database.

86. (Original) The method of Claim 85 wherein the identifier is a unique address of the web content provider.

87. (Original) The method of Claim 86 wherein the unique address is a domain name derived from a domain name registry.

88. (Original) The method of Claim 85 wherein the stored information is compressed.

89. (Original) The method of Claim 85 wherein the stored information includes a copy of a multimedia file.

90. (Original) The method of Claim 85 further comprising operating on the stored information using an indexer.

91. (Original) The method of Claim 90 wherein the indexer includes a digital signature engine operating on multimedia files.

92. (Original) The method of Claim 85 further comprising for querying the data warehouse through a user interface.

93. (Original) The method of Claim 92 wherein the user interface is operable by a remote computer.

94. (Original) The method of Claim 93 wherein the remote computer includes a search engine interface.

95. (Original) The method of Claim 85 further comprising operating web robots to retrieve information from a remote content provider.

96. (Previously Presented) The method of Claim 95 wherein the remote content provider is a registry storing the ownership registration data.

97. (Previously Presented) The method of Claim 85 further comprising monitoring changes to instructions at the web content provider, based on the stored source code.

98. (Previously Presented) The method of Claim 85 further comprising monitoring changes to ownership registration data at a registration content provider based on the stored record of ownership registration data.

99. (Original) The method of Claim 85 wherein the data warehouse includes an offline storage medium.

100. (Currently Amended) A computerized method for archiving data from a plurality of distinct content providers~~, each content provider having ownership information, the ownership information being changeable over time~~, the method comprising:

connecting a machine to a data archive having data storage that is accessible by the machine;

machine storing in the data archive an identification for each content provider of a plurality of content providers, each content provider having ownership information, the ownership information being changeable over time; and

machine storing, for each identified content provider, a file for each version of the ownership information in association with a time stamp in [[a]] the data archive for later retrieval.

101. (Previously Presented) The method of Claim 100 wherein the ownership information includes registration data associated with a shared registry.

102. (Previously Presented) The method of Claim 100 wherein storing the content comprises using a data compression algorithm to reduce the size of the ownership information before storing in the data archive.

103. (Previously Presented) The method of Claim 100 further comprising tracking changes to the stored ownership information over time.

104. (Previously Presented) The method of Claim 100 wherein the stored ownership information is maintainable in perpetuity.

105. (Previously Presented) The method of Claim 100 further comprising maintaining a searchable index of the stored ownership information.

106. (Currently Amended) A method for monitoring intellectual property rights across a plurality of internetworked content providers, comprising:

connecting a machine to a data archive having data storage that is accessible by the machine;

providing an identifier of a plurality of web content providers;

for each of a plurality of content provider, machine storing searchable information in the data archive, including:

~~a record of~~ Internet domain name registration data associated with the content provider stored in a registration file;

~~a source code file having~~ instructions for operating web browsers as specified by the web content provider stored in a source code file;

~~a file having~~ an image of a browser-rendered display generated by a web browser as instructed by the instructions in the source code file, the browser-rendered image being generated contemporaneously with the storage of the source code file and stored in a rendered image file;

in a computer database associated with the data archive, machine associating web content providers with the stored information and associating the stored information with a time stamp;

soliciting information from the data archive related to the searchable information and a specified time; and

presenting a report responsive to the solicited information, the report including archived information associated at least one content provider.

107. (Original) The method of Claim 106 wherein the solicited information is at least one of a trademark, a work of authorship, or an invention.

108. (Original) The method of Claim 106 wherein soliciting information comprises entering a file location.

109. (Original) The method of Claim 108 wherein the file is at least one of a text file, an audio file, an image file, or a video file.

110. (Original) The method of Claim 106 wherein the report includes archived information associated with a plurality of network registrars.

111. (Original) The method of Claim 106 wherein the report includes archived information from a plurality of web content providers.

112. (Original) The method of Claim 106 wherein the archived information includes obsolete information.

113. (Currently Amended) An article of manufacture, comprising:

a computer-usable medium; and

a set of computer instructions embodied on the medium for operating a computer, the instructions including a computerized method for retrieving electronic content collected from an electronic address over time, the electronic content associated with an internetworked content provider, comprising instructions for:

in a data warehouse having data storage accessible by a computer, storing a plurality of data files, including an archived original content file having original content stored therein as collected from an electronic address at a specified time and an archived registration file having Internet domain name registration information stored therein that is related to a content provider associated with the electronic address at the specified time;

storing a searchable electronic index of the original content stored in the archived original content file;

providing a query engine in communication with the electronic index;

soliciting a query from a user for desired content through a user interface in communication with the query engine, the desired content having a match to original content stored in the archived original content file;

presenting a query result to the user in response to the query and the electronic index, the query result including a reference to the archived original content file and the archived registration file ~~Internet domain registration information~~.

114. (Currently Amended) An article of manufacture, comprising:

a computer-usable medium; and

a set of computer instructions embodied on the medium for operating a computer, the instructions including a computerized method for storing information for retrieval, comprising instructions for:

storing data in an organized structure in a database, the data associated with a plurality of data files, including an archived original content file having content stored therein as collected from an electronic address over time, the electronic content associated with a content provider;

from a plurality of modules, populating the database with the data files;

creating a searchable electronic index of the content stored within the archived original content file stored in the database;

accepting a query parameter into a query engine in communication with the electronic index; and

retrieving the stored data based on the query parameter and the electronic index.

115. (Currently Amended) An article of manufacture, comprising:

a computer-usable medium; and

a set of computer instructions embodied on the medium for operating a computer, the instructions including a computerized method for storage and retrieval of content from a plurality of Internet content providers, the content including registration content and page content, the method comprising instructions for:

storing content for later retrieval in a data warehouse; and

retrieving registration content for a plurality of web content providers from a plurality of Internet domain name registries and storing the retrieved registration content in a plurality of registration files in the data warehouse over time;

associating the stored registration content with a respective time stamp, the time stamp indicating the time that the stored registration content was retrieved from the respective Internet domain name registry; and

creating a searchable electronic index of the ~~stored~~ registration content stored in the registration files.

116. (Currently Amended) An article of manufacture, comprising:

a computer-usable medium; and

a set of computer instructions embodied on the medium for operating a computer, the instructions including a computerized method for archiving information from a plurality of internetworked web content providers, comprising instructions for:

storing an identifier of a web content provider in a data warehouse;

for the web content provider, storing information in the data warehouse including:

~~a record of~~ ownership registration data stored in a registration file;

~~a source code file having~~ instructions for operating web browsers stored in a source code file;

~~a file having~~ an image of a browser-rendered display generated by a web browser as instructed by the instructions in the source code file, the rendered image file generated contemporaneously with the storage of the source code file and stored in a rendered image file; and

associating the web content provider with the stored information in a database.

117. (Currently Amended) An article of manufacture, comprising:

a computer-usable medium; and

a set of computer instructions embodied on the medium for operating a computer, the instructions including a computerized method for archiving data from a plurality of distinct content providers, each content provider having ownership information, the ownership information being changeable over time, the method comprising instructions for:

storing an identification for each content provider of a plurality of content providers; and

storing, for each identified content provider, a file for each version of the ownership information in association with a time stamp in a data archive for later retrieval.

118. (Currently Amended) An article of manufacture, comprising:

a computer-usable medium; and

a set of computer instructions embodied on the medium for operating a computer, the instructions including a method for monitoring intellectual property rights across a plurality of internetworked content providers, comprising instructions for:

providing an identifier of a plurality of web content providers;

for each of a plurality of content provider, storing searchable information in the data archive, including:

~~a record of~~ Internet domain name registration data associated with the content provider stored in a registration file;

~~a source code file having~~ instructions for operating web browsers as specified by the web content provider stored in a source code file;

~~a file having~~ an image of a browser-rendered display generated by a web browser as instructed by the instructions in the source code file, the browser-rendered image being generated contemporaneously with the storage of the source code file and stored in a rendered image file;

a database associating web content providers with the stored information and associating the stored information with a time stamp;

soliciting information from the data archive related to the searchable information and a specified time; and

presenting a report responsive to the query information, the report including archived information associated at least one content provider.

119. (Previously Presented) The system of Claim 1 further comprising a database for relating the archived original content file and the archived Internet domain registration information related to a content provider based on a time that the archived copy of the original content file was collected from the electronic address.

120. (Previously Presented) The system of Claim 13 wherein the database relates the archived original content file with a time that the archived original content file was collected from the electronic address.

121. (Cancelled)

122. (Previously Presented) The system of Claim 27 wherein the database relates the stored information with a time that the stored information was collected for the data warehouse.

123. (Cancelled)

124. (Previously Presented) The system of Claim 1 wherein the archived original content file includes an image of a browser-executable source code file.

125. (Previously Presented) The system of Claim 13 wherein the archived original content file includes an image of a browser-executable source code file.

126. (Previously Presented) The system of Claim 27 wherein the stored source code file includes an image of a browser-executable source code file.

127. (Previously Presented) The system of Claim 58 wherein the stored source code file includes an image of a browser-executable source code file.